

Product datasheet for **DM080P**

Neurofilament (NEFL) (+ Neurofilament H) Mouse Monoclonal Antibody [Clone ID: 2F11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2F11
Applications:	IHC, WB
Recommended Dilution:	Immunoblotting. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Embedded Sections. Recommended Dilutions: 1/25–1/200 for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1/100–1/1000 for immunoblotting.
Reactivity:	Feline, Human, Mouse, Opossum, Rabbit, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human neurofilament preparation
Specificity:	2F11 reacts exclusively with the phosphorylated isoform of the 70 kD neurofilament protein. This antibody labels neurons, neuronal processes, and peripheral nerves as well as sympathetic ganglion cells and adrenal medulla. Cell body of neurons, containing the non-phosphorylated neurofilament, is weakly stained.
Formulation:	PBS State: Purified State: Liquid purified antibody Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	68 kDa and 200 kDa (phosphorylated forms of these subunits).



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Gene Name:	neurofilament, light polypeptide
Database Link:	Entrez Gene 4747 Human P07196
Background:	Like most other intermediate filament proteins (IFPs), the expression of the different neuronal IFPs is both tissue-specific and developmentally regulated. The neurofilament NF) triplet proteins (70, 160, and 200 kDa) occur in both the central and peripheral nervous system and are normally restricted to neurons. The 70 kDa NF-protein can self-assemble into a filamentous structure, whereas the 160 kDa and 200 kDa NF-proteins require the presence of the 70 kDa NF-protein to co-assemble. All three NF proteins can be detected by immunohistochemical methods at day 9 or 10 after gestation in the mouse embryo. Although IFPs of the neurofilament type are normally restricted to neurons, there are reports on their expression in non-neuronal cells as well. For example, in heart conduction myocytes NF proteins are expressed together with desmin. In tumor pathology ganglioneuroblastomas and some of the other neuroblastomas are strongly positive with the neurofilament antisera. Also, some neuro-endocrine malignancies may show NF positivity. In cell cultures of neural tissues the neurofilament antibodies can monitor in vitro differentiation
Synonyms:	NF-L,NEFL, NF68, 68 kDa neurofilament protein